

## US16E Seat – F-35 – Joint Strike Fighter

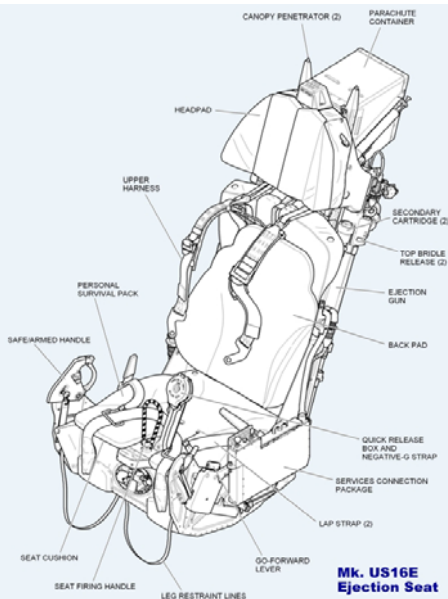
The System Development & Demonstration (SDD) ejection seat that was selected by Lockheed Martin Aeronautics Company is a further development of the Mk.16 range that has already been successful with the Raytheon Texan II (JPATS), the Eurofighter Typhoon, the NASA T-38N and USAF T-38 upgrade programs and other numerous aircraft platforms around the world.

The US16E seat design provides an unprecedented balanced optimization between key performance parameters such as safe terrain clearance limits, physiological loading limits, pilot boarding mass and anthropometric accommodation ranges to fully meet the F-35 Escape System requirements.

The US16E will be common to all F-35 aircraft variants.



### SPECIFICATIONS



● Operating ceiling	50 000 ft (15,250 m)
● Minimum height/speed	Zero/zero in near level attitude
● Crew boarding mass range	58.1 to 130.6 kg
● Crew size range	JPATS multi-variate body size cases 1 – 8
● Maximum speed for ejection	600 KEAS
● Parachute type	GQ Type 6000
● Parachute deployment	Cartridge initiated
● Drogue parachute	Yes
● Drogue deployment	Cartridge initiated
● Harness type	MG5 Combined
● Ejection seat operation type	Ejection guns and underseat rocket motor
● Ejection gun	Twin
● Ejection initiation	Handle on seat pan initiates gas operated seat firing system
● Automatic back-up unit	Yes, mechanical system with barostatic time-release
● Electronic sequencer	Yes, powered by thermal batteries
● Timers	Time delays imposed by sequencer and ABU
● Seat adjustment	Up/down actuator operated 28 Vdc fore/aft manual backrest adjustment Rail assembly tilt mechanism enables installation to aircraft with different bulkhead configurations
● Arm restraints	Yes
● Leg restraints	Yes, passive system
● Oxygen supply	Bottled back-up/emergency oxygen Connection to main on board oxygen generation system (OBOGS)
● Seat survival kit	Yes + automatic deployment and liferaft inflation
● Aircrew services	Connection to main oxygen supply, mic/tel, anti-g, thermal cooling. Interface to helmet
● Command ejection	NA
● Canopy jettison	NA
● Canopy fracturing system	Yes
● Interseat sequencing system	NA
● Auto eject system	Active on STOVL variant only

### INSTALLATIONS

